INTERNATIONAL SEARCH REPORT

International application No. PCT/KR2004/002479

CLASSIFICATION OF SUBJECT MATTER A. IPC7 G11B 20/12 According to International Patent Classification (IPC) or to both national classification and IPC FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) G11B 20/12 G11B 20/10 G11B 7/00 G11B 7/24 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the intertnational search (name of data base and, where practicable, search terms used) WPI, PAJ "disc, spare, area, size, temporary, direction, TDMA(Temporary Disc Management Area)" C. DOCUMENTS CONSIDERED TO BE RELEVANT Category* Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages US 2002-0159382 A1 (MITSUBISHI DENKI KABUSHIKI KAISHA) 31 October 2002 1, 8, 15, 22 See the whole document JP 2002-288938 A (TOSHIBA CORP.) 04 October 2002 1, 8, 15, 22 See the whole document JP 2000-222831 A (SANYO ELECTRIC CO., LTD.) 11 August 2000 1, 8, 15, 22 See the whole document JP 9-167446 A (SONY CORPORATION) 24 June 1997 1, 8, 15, 22 A See the whole document See patent family annex. Further documents are listed in the continuation of Box C. Special categories of cited documents: "T" later document published after the international filing date or priority "A" document defining the general state of the art which is not considered date and not in conflict with the application but cited to understand to be of particular relevance the principle or theory underlying the invention "E" earlier application or patent but published on or after the international "X" document of particular relevance; the claimed invention cannot be filing date considered novel or cannot be considered to involve an inventive document which may throw doubts on priority claim(s) or which is step when the document is taken alone cited to establish the publication date of citation or other "Y" document of particular relevance; the claimed invention cannot be special reason (as specified) considered to involve an inventive step when the document is "O" document referring to an oral disclosure, use, exhibition or other combined with one or more other such documents, such combination means being obvious to a person skilled in the art document published prior to the international filing date but later *&" document member of the same patent family than the priority date claimed Date of the actual completion of the international search Date of mailing of the international search report 05 JANUARY 2005 (05.01.2005) 06 JANUARY 2005 (06.01.2005) Authorized officer Name and mailing address of the ISA/KR Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea KIM, Yong Woong

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